Title (en)

METHOD AND SYSTEM FOR MOBILE IP HOME AGENT REDUNDANCY

Title (de)

VERFAHREN UND SYSTEM FÜR MOBIL-IP-HEIMATAGENT-REDUNDANZ

Title (fr)

PROCEDE ET SYSTEME POUR REDONDANCE D'AGENTS DOMESTIQUES A PROTOCOLE INTERNET MOBILE

Publication

EP 1495415 A4 20081231 (EN)

Application

EP 03719546 A 20030325

Priority

• US 0310107 W 20030325
• US 11318402 A 20020401

Abstract (en)

[origin: WO03085540A2] A method and system for Mobile Internet Protocol (EP) device redundancy. As mobile devices (78) roam (84) away from a home network (80) and change a connective status, mobility binding records are sent to a multicast network address on the home network. The multicast network address multicasts the mobility binding records to other active Mobile IP home agent control nodes, standby home agent control nodes and standby home agents on the home network. The method and system allows standby home agent control nodes or standby home agents to be transparently switched for active home agent control nodes or active home agents that fail without downloading or uploading large numbers of mobility binding records after a failure. The method and system may also help reduce failed calls (e.g., data sessions including Voice over IP (VoIP), H.323, etc.), network congestion and improve user satisfaction in Mobile IP systems.

IPC 8 full level

H04L 12/28 (2006.01); **H04L 12/56** (2006.01); H04L 69/40 (2022.01)

CPC (source: EP US)

H04W 8/12 (2013.01 - EP US); H04L 69/40 (2013.01 - EP US); H04W 4/16 (2013.01 - EP US); H04W 80/04 (2013.01 - EP US)

Citation (search report)

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• [X] EP 1058421 A2 20001206 - NORTEL NETWORKS LTD [CA]
• [X] HEISSENHUBER F ET AL: "HOME AGENT REDUNDANCY AND LOAD BALANCING IN MOBILE IPV6", BROADBAND COMMUNICATIONS. PROCEEDINGS OF THE INTERNATIONALIFIP-IEEE CONFERENCE ON BROADBAND COMMUNICATIONS, XX, XX, 10 November 1999 (1999-11-10), pages 235 - 244, XP009002035
• [A] BJORN CHAMBLESS PORTLAND STATE UNIVERSITY JIM BINKLEY OREGON GRADUATE INSTITUTE: "HARP - Home Agent Redundancy Protocol; draft-chambless-mobileip-harp- 00.txt", IETF STANDARD-WORKING-DRAFT, INTERNET ENGINEERING TASK FORCE, IETF, CH, 27 October 1997 (1997-10-27), XP015011615, ISSN: 0000-0004
• See references of WO 03085540A2

Designated contracting state (EPC)

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DOCDB simple family (publication)

WO 03085540 A2 20031016; **WO 03085540 A3 20031204**; AU 2003223417 A1 20031020; CA 2480897 A1 20031016; EP 1495415 A2 20050112; EP 1495415 A4 20081231; US 7080151 B1 20060718

DOCDB simple family (application)

US 0310107 W 20030325; AU 2003223417 A 20030325; CA 2480897 A 20030325; EP 03719546 A 20030325; US 11318402 A 20020401